

Title: FA-1.3: Shuttle and Virtual Spacecraft Operations

Objectives:

- Verify the Scheduling of Virtual Spacecraft SAR's for International Space Station and STS.
- Verify Slide function based on a Shuttle Launch Slip.
- Train Forecast Schedulers.
- Documentation verification.

Configuration:

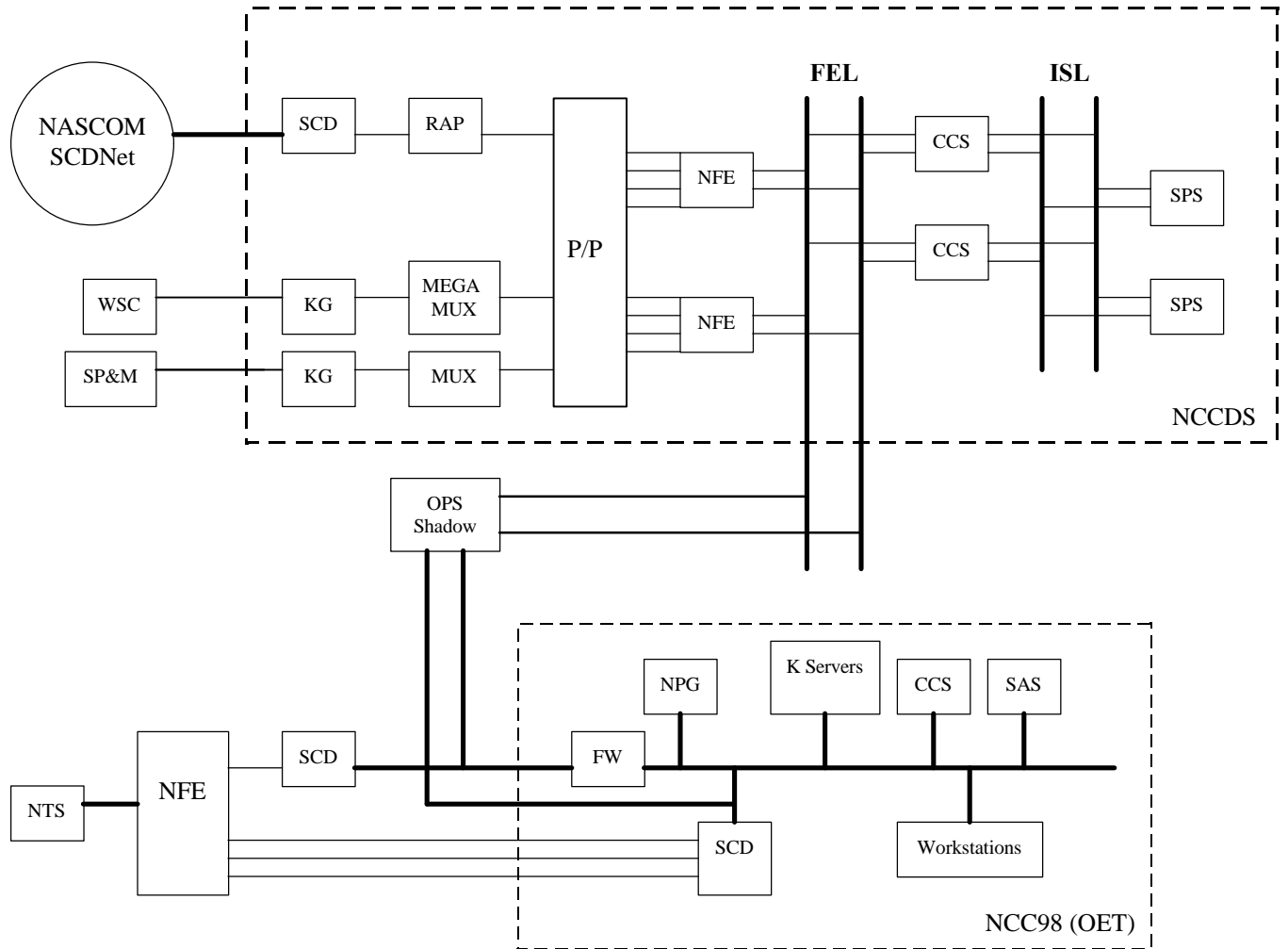
System will be configured in the internal test configuration with the NTS/UPS configured to simulate the externals. All operator actions resulting in system output will be directed to NTS/UPS. (See figure next page.)

Prerequisites:

- NSIA will configure system as pictured above.
- All test and operator accounts are set up.
- Database modifications have been made to reflect Virtual Spacecraft.
- Operator will review the SPSR User's Guide.
- All NTS data has been created and verified.

Data Source:

Data will originate from operations and NTS/UPS.



Ops Scenario: (Italicized steps are performed by NSIA, all others are performed by the operator.)

SCHEDULE MAINTENANCE CONTROL

1. Logon to the workstation
2. Review current Batch Boundary and current settings of absolute and relative boundaries.
3. Verify Batch Boundary is set to 14 - 21 days in the future.
4. Review Alert Period Parameters.
5. Set the Batch Request Receipt Alert Period to the 14 to 21 days from current day.

RECEIPT/VALIDATION OF SCHEDULES

6. *Shadow receipt of actual operations forecast schedules from the POCCs on Monday.*
7. *Verify receipt and validation of schedule requests and transmission of SRMs.*

FORECAST SCHEDULE

8. Block resource NO USER times with S0200PMs based on OPM-54's (if applicable) for the Forecast period.
9. *From UPS or NTS transmit the following*
 - a. *STS/ISS SAR s using Virtual Spacecraft SSA and KSA Services.*

SCHEDULE GENERATION

10. Generate schedules.

Launch Slip

11. Based on a one day launch slip perform a Slide function and rerun Schedule Generation to reflect new Launch window.
12. Activate schedule.

NCD

13. Operator should perform a delog to analyze incoming 99/10's, 99/11's, 99/12's, 99/21's and 99/25's.

Roles and Responsibilities:

FA:

- Observe shadowing of receipt of schedule requests.
- Conduct generation of alternate forecast schedules.
- Evaluate/compare alternate schedules and select the most effective forecast schedule.
- Perform conflict resolution on selected schedule.
- Activate schedule.
- Train FA and fill out skills catalogs and Training Event Reports (TERs).
- Checkout redlined version of LOPs including, but not limited to:
 - NCC-LOP-002 OPM-59 Message Processing
 - NCC-LOP-006 OPM-54 WSC Scheduling Request Message Processing
 - SU-FA-LOP-001 Scheduling SHOS for the WSC MRT
 - SU-FA-LOP-002 Disabling the Forecast Position
 - SU-FA-LOP-003 Scheduling GRTS Events in the Forecast Period

NSIA:

- One NSIA engineer required.
- Configure system.
- Perform all italicized steps in test case.
- Observe shadowing of receipt of schedule requests.
- Observe/assist FA in completion of all schedule generation and activation activities.

DRAFT

DOCS:

- Checkout redlined version of the following documents:
 - 532-HB-NCC/SO Scheduling Handbook (Forecast Section).
 - 532-UG-NCC/SPS-1&2 SPS 1&2 User's Guide
 - 532-UG-NCC/SPS-3 SPS-3 (DT&T) User's Guide

Estimated Run Time:

4 hours run time

Written By: George Kellenbenz